

In the Specification

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Replace the paragraph at page 4, lines 13-14 with the following paragraph:

A2
Figure 4 is a side view of one embodiment of an upper magnet array and a lower magnet array; and

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Replace the paragraph at page 4, lines 27-32 with the following paragraph:

A3
A detailed description of the various components of a disk drive 10 is provided in U.S. Patent No. 5,208,712, issued to Hatch et al., and assigned to Maxtor Corporation, the assignee of the present invention. The contents of U.S. Patent No. 5,208,712 are incorporated herein by reference. Accordingly, only the structural aspects of a disk drive 10 that are particularly significant to the present invention, are provided in detail herein.

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Replace the paragraph at page 6, lines 5-11 with the following paragraph:

A4
The actuator arms 38 move with the actuator hub 36 and position the transducer assemblies 22 between the storage disks 28, proximate the data storage surfaces 30. Each actuator arm 38 includes a proximal section 42 that is secured to the actuator hub 36 and a distal section 44 that cantilevers away from the actuator hub 36. The spacing of the actuator arms 38 varies according to the spacing of the storage disks 28. The distance between consecutive actuator arms 38 is typically between about one millimeter (1 mm) to three millimeters (3 mm).

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Replace the paragraph at page 6, lines 27-33 with the following paragraph:

A5
The positioner 20 precisely moves and positions the E-block 16 and the data transducers 50 relative to the storage disks 28. The design of the positioner 20 can be varied in accordance with the teachings provided herein. Referring to Figure 2, the positioner 20 includes a magnet assembly 52 and a conductor assembly 54. As provided herein, the positioner 20 positions and maintains the position of the data transducers 50 with improved accuracy, eliminates the major system mode of the head stack assembly 15, and allows for a higher servo bandwidth.

Replace the paragraph at page 7, lines 17-29 with the following paragraph:

Referring to Figures 3, 4 and 5, a transition zone 70 vertically divides each magnet array 56A, 56B into a first sector 72 and a second sector 74 which are side-by-side. The transition zone 70 is represented by dashed lines. Each of the sectors 72, 74, when magnetized, has a north pole and a south pole. The poles of the first and second sectors 72, 74, for the upper magnet array 56A are inverted and the first and second sectors 72, 74 for the lower magnet array 56B are inverted. Further, (i) the poles of the first sector 72 of the upper magnet array 56A and poles of the first sector 72 of the lower magnet array 56B are opposed and (ii) the poles of the second sector 74 of the upper magnet array 56A and poles of the second sector 74 of the lower magnet array 56B are opposed. Referring to Figure 4, as a result of this design, the magnetic fields 73 (represented as an arrow) between the first sectors 72 of the magnet arrays 56A, 56B are opposite from the magnetic fields 73 between the second sectors 74 of the magnet arrays 56A, 56B.

Replace the paragraph at page 8, lines 16-30 with the following paragraph:

Figure 3 illustrates one embodiment of a coil array 78 having features of the present invention. In this embodiment, the coil array 78 is a somewhat flat, generally D-shaped loop that includes a substantially linear first segment 80 and a curved, arc shaped, second segment 82. The coil array 78 is secured to the E-block 16 with (i) the first segment 80 extending substantially perpendicular to the longitudinal axis 43 of the E-block 16, and (ii) the second segment 82 forming an arc that is centered at the E-block pivot center 41. Moreover, the first segment 80 and the second segment 82 are preferably positioned symmetrically about the longitudinal axis 43 of the E-block 16. For purposes of this discussion, the first segment 80 can be divided into a first portion 84, a second portion 86, and a center portion 88. The first portion 84, the second portion 86, and the center portion 88 are preferably oriented substantially perpendicular to the longitudinal axis 43 of the E-block 16. The center portion 88 is positioned between the first portion 84 and the second portion 86, and connects the first portion 84 to the second portion 86 to form a continuous first segment 80 of the coil array 78.